

WHAT IS CLAIMED IS:

1. An image processing system, comprising:
 - a memory for storing image data of a plurality of pages;
 - a compressor for compressing input image data;
 - writing means for writing a set of image data of a plurality of pages compressed by said compressor into said memory in sequence;
 - a first controller which executes a reading of the set of stored image data from said memory and an image processing thereof in sequence;
 - a second controller which executes a re-reading of the set of stored image data from said memory and an image processing thereof in sequence;
 - a first detector for detecting insufficiency of empty capacity of said memory based on a capacity of image data of one page compressed at a predetermined compression rate; and
 - a third controller which, in the event that insufficiency of empty capacity of said memory is detected by said first detector during the writing of image data into said memory by said writing means, continues the image processing by said first controller by writing new image data by said writing means after a termination of the image processing of the image data of at least one page stored previously by said first controller; and
 - a second detector which detects an occurrence of an

overwriting of the new image data on the stored image data at the time of writing the new image data by said third controller.

2. The image processing system as recited in claim 1, further comprising cancellation means for canceling the image processing by said second controller when said second detector detects the overwriting.

3. The image processing system as recited in claim 1, wherein the image data stored previously is transferred to another memory before the overwriting is detected by said second detector, and the image processing by said second controller is executed by using the image data stored in said another memory after the overwriting is detected.

4. The image processing system as recited in claim 1, wherein said first detector detects insufficiency of empty area of said memory under the condition that an empty area of a predetermined capacity remains in said memory.

5. The image processing system as recited in claim 1, wherein the image processing is a print processing for forming an image on a sheet based on image data.

6. The image processing system as recited in claim 1, further comprising an image reader for reading an original

document to input image data.

7. The image processing system as recited in claim 1, further comprising setting means for setting a memory recall mode, wherein the image processing by said second controller is executed when the memory recall mode is set.

8. The image processing system as recited in claim 1, further comprising setting means for setting the number of prints, wherein the image processing by said second controller is executed when a plural sets of prints are set.

9. An image processing method which compresses a set of input image data of a plurality of pages in sequence, writes the compressed image data into a memory in sequence and reads out the stored set of image data from the memory in sequence and executes an image processing thereof, the method including the steps of:

detecting insufficiency of empty capacity of the memory based on a capacity of compressed image data of one page at a prescribed compression rate during the writing of the image data into the memory;

continuing the image processing by writing a new image data after a termination of the image processing of the image data of at least one page previously stored when insufficiency of empty capacity of the memory is detected;

detecting an overwriting of the new image data on the image

data already stored at the time of writing of the new image data;
and

executing the image processing by reading out the set of stored image data again from the memory in sequence when no overwriting is detected, and prohibiting an execution of the image processing by reading the image data again when the overwriting is detected.

10. The image processing method as recited in claim 9, wherein the step of detecting the insufficiency of empty capacity of the memory is performed by detecting the insufficiency of empty capacity of the memory under the condition that an empty area of a predetermined capacity remains in the memory.

11. The image processing method as recited in claim 9, wherein the image processing is a print processing for forming an image on a sheet based on image data.

12. The image processing method as recited in claim 9, further including the step of setting a memory recall mode, wherein an image processing by a re-reading of the image data is executed when the memory recall mode is set.

13. The image processing method as recited in claim 9, further including the step of setting the number of prints, wherein an image processing by a re-reading of the image data is

executed when the number of prints is set.

14. An image processing system, comprising:

- a memory for storing image data of a plurality of pages;
- a compressor for compressing input image data;
- writing means for writing a set of image data of a plurality of pages compressed by said compressor into said memory in sequence;
- a first controller which executes a reading of the set of stored image data from said memory and an image processing thereof in sequence;
- a second controller which executes a re-reading of the set of stored image data from said memory and an image processing thereof in sequence;
- a second detector which detects an occurrence of an overwriting of image data on the stored image data at the time of writing the image data into said memory by said writing means; and
- canceling means for canceling the image processing by said second controller when the overwriting is detected by said second detector.

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